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- (71) Applicant (for all designated States except US): UNIVER-SITY OF DUNDEE [GB/GB]; 11 Perth Road, Dundee DD1 4HN (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HARDIE, David, Grahame [GB/GB]; 3 Beechwood Terrace East, Newport on Tay, Fife DD6 8JG (GB). ALESSI, Darlo [GB/GB]; 309 Perth Road, Dundee DD2 1LG (GB). BOUDEAU, Jerome [FR/GB]; 6 Bellfield avenue, 1st flat right, Dundee DD1 4NQ (GB).

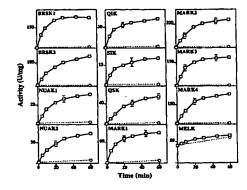
- (74) Agent: PILKINGTON, Stephanle; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).
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(54) Title: METHODS FOR USE OF AN LKB1/STRAD7MO25 COMPLEX



(57) Abstract: A method for identifying a compound for use in modulating, for example promoting, the activation or phosphorylation of AMPK (AMP-activated protein kinase) or AMPK subfamily member in a cell, the method comprising the steps of (1) determining whether a test compound modulates, for example promotes, the protein kinase activity of LKB1 and (2) selecting a compound which modulates, for example promotes, the protein kinase activity of LKB1. The protein kinase activity may be tested using AMPK or an AMPK subfamily member, or a peptide encompassing the T-loop region of AMPK or an AMPK subfamily member. The LKB1 may be in a preparation or complex with STRAD and/or MO25, which has much greater kinase activity than LKB1 in the absence of these accessory proteins. The LKB1, STRAD or MO25 may be recombinant. The AMPK subfamily member may be AMPKal, AMPKa2, NUAK1, NUAK2, BRSK1, BRSK2, SIK, QIK, QSK, MARK1, MARK2, MARK3, MARK4 or MELK.

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